IN THE CLAIMS

- 1. (Canceled).
- 2. (Canceled).
- 3. (Canceled).
- 4. (Canceled).
- 5. (Canceled).
- 6. (Canceled).
- 7. (Canceled).
- 8. (Canceled).
- 9. (Canceled).

10. (Previously Presented) A method of amplifying optical signals, comprising:

transmitting a optical siqnal from first first first port of а first coupler to а bidirectional unidirectional port of a second coupler connected to the first coupler by a delay element;

transmitting the first optical signal from the first unidirectional port through an amplifier to a second unidirectional port of the second coupler; and

transmitting the first optical signal from the second unidirectional port to a second bidirectional port of the first coupler.

- 11. (Canceled).
- 12. (Canceled).
- 13. (Previously Presented) The method of Claim 10, further comprising;

transmitting a second optical signal from a second bidirectional port of the first coupler to the first unidirectional port;

transmitting the second optical signal from the first unidirectional port through the amplifier to the second unidirectional port; and

transmitting the second optical signal from the second unidirectional port to the first bidirectional port.

14. (Previously Presented) The method of Claim 10, wherein the first optical signal is at a first wavelength.

- 15. (Previously Presented) The method of Claim 13, wherein the second optical signal is at a second wavelength.
- 16. (Previously Presented) A method of amplifying optical signals, comprising:

transmitting a first optical signal from at least one of first and second bidirectional ports of a first coupler to a first unidirectional port of a second coupler connected to the first coupler by delay element;

transmitting the first optical signal from the first unidirectional port through an amplifier to a second unidirectional port of the second coupler; and

transmitting the first optical signal from the second unidirectional port to the at least one of first and second bidirectional ports.

- 17. (Canceled).
- 18. (Canceled).
- 19. (Previously Presented) The method of Claim 16, further comprising:

transmitting a second optical signal from at least one of the first and second bidirectional ports to the first unidirectional port;

transmitting the second optical signal from the first unidirectional port through the amplifier to the second unidirectional port; and

transmitting the second optical signal from the second unidirectional port to at least one of the first and second bidirectional ports.

- 20. (Previously Presented) The method of Claim 16, wherein the first optical signal is at a first wavelength.
- 21. (Previously Presented) The method of Claim 19, wherein the second optical signal is at a second wavelength.
 - 22. (Canceled).
 - 23. (Canceled).
 - 24. (Canceled).
- 25. (Previously Presented) An optical router, comprising:
- a first bidirectional port coupled to a first
 unidirectional port;
- a delay element coupled to the first bidirectional port and the first unidirectional port;
- an amplifier coupled to the first unidirectional port and a second unidirectional port; and
- a second bidirectional port coupled to the second unidirectional port.
 - 26. (Canceled).
- 27. (Previously Presented) The optical router of Claim 25, further comprising:
- a first optical coupler coupled to the first bidirectional port and the second bidirectional port; and
- a second optical coupler coupled to the first unidirectional port and the second unidirectional port.

- 28. (Previously Presented) The optical router of Claim 25, wherein the amplifier is a unidirectional amplifier.
 - 29. (Canceled).
- 30. (Previously Presented) The optical router of Claim 10, wherein the delay element comprises at least one pair of electrodes.
- 31. (Previously Presented) The optical router of Claim 10, wherein the first and second couplers are 3 dB couplers.
- 32. (Previously Presented) The optical router of Claim 10, wherein the delay element is a difference in distance ΔL indicating a real MZI difference between the first and second couplers.
- 33. (Previously Presented) The optical router of Claim 16, wherein the delay element comprises at least one pair of electrodes.
- 34. (Previously Presented) The optical router of Claim 16, wherein the first and second couplers are 3 dB couplers.
- 35. (Previously Presented) The optical router of Claim 16, wherein the delay dement is a difference in distance ΔL indicating a real MZI difference between the first and second couplers.

- 36. (Previously Presented) The optical router of Claim 25, wherein the delay element comprises at least one pair of electrodes.
- 37. (Previously Presented) The optical router of Claim 27, wherein the first and second optical couplers are 3 dB couplers.
- 38. (Previously Presented) The optical router of Claim 25, wherein the delay element is a difference in distance ΔL indicating a real MZI difference between the first and second optical couplers.